

ABSTRACT

A filter device is provided that can easily achieve reduction in current consumption and whose variations can be corrected. A phase difference of a reference filter is detected by a phase difference detector, a control signal for correcting variations that is obtained as a result of the detection is held in a register, and a cut-off frequency of a main filter is selected according to the control signal thus held. Thus, once variations are detected, the reference filter and the phase difference detector that are used for detection of variations become no longer necessary and their operations can be halted, thereby achieving reduction in current consumption.